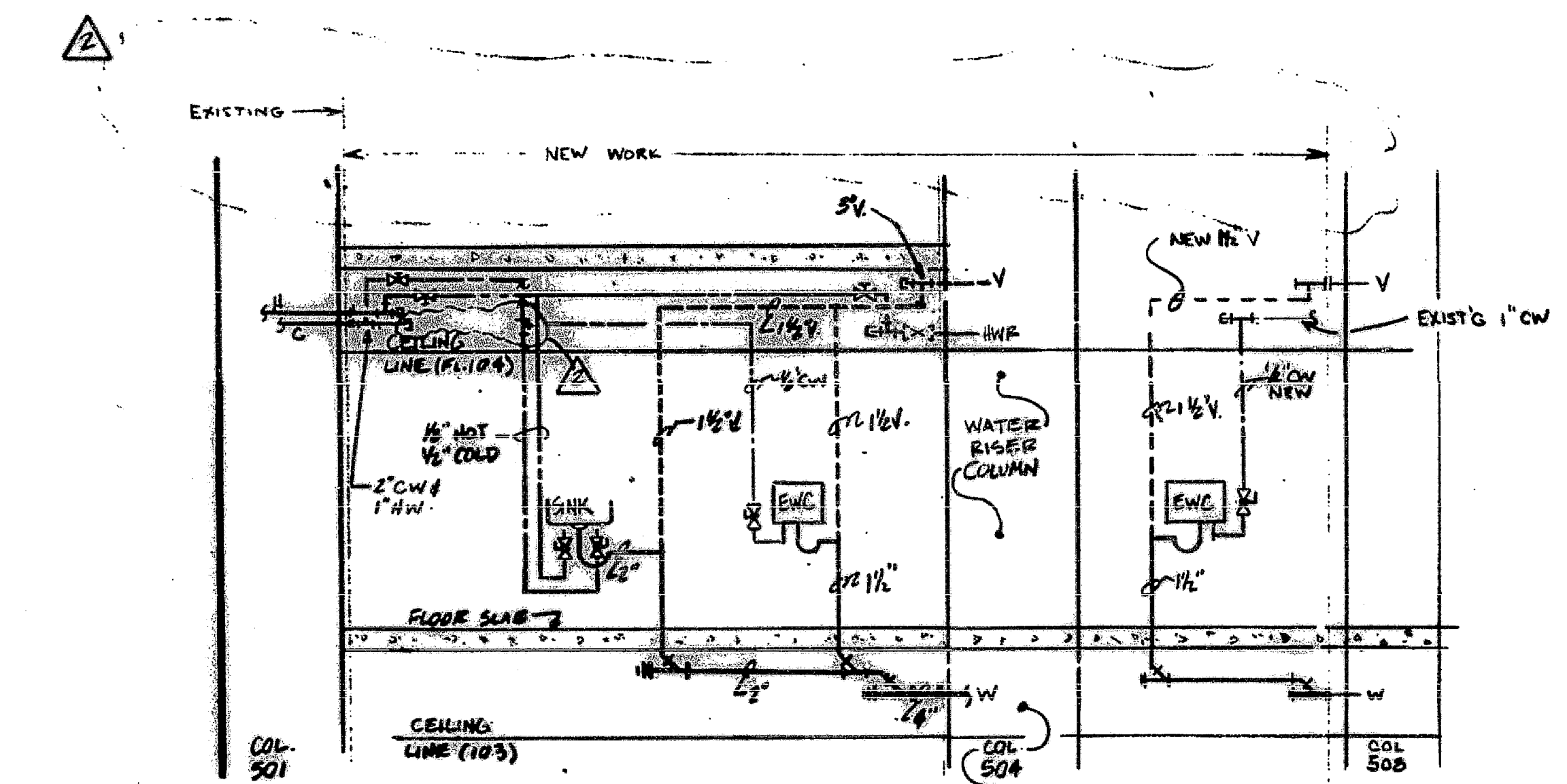
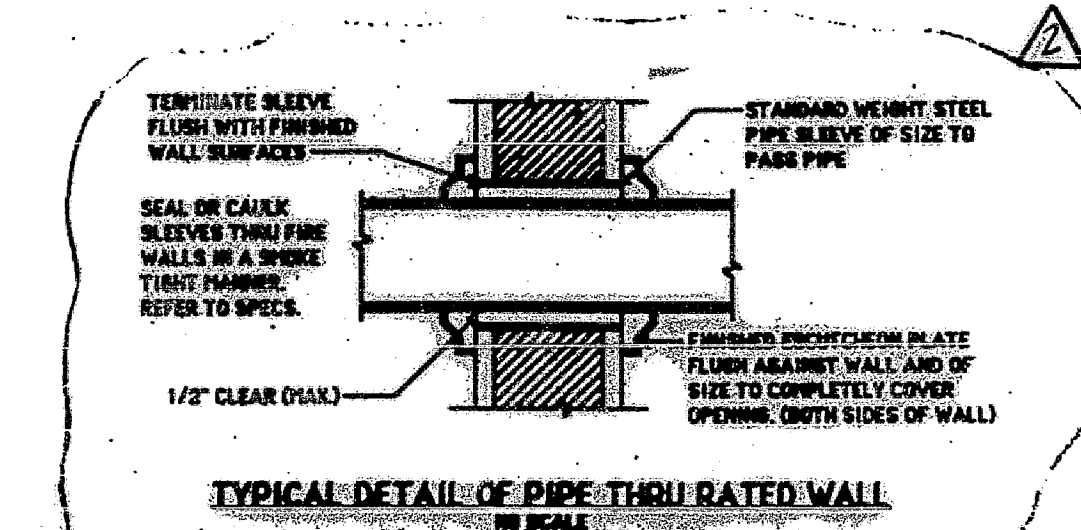


PLAN VIEW
1/4" = 1'-0"



RISER DIAGRAM
NOT TO SCALE



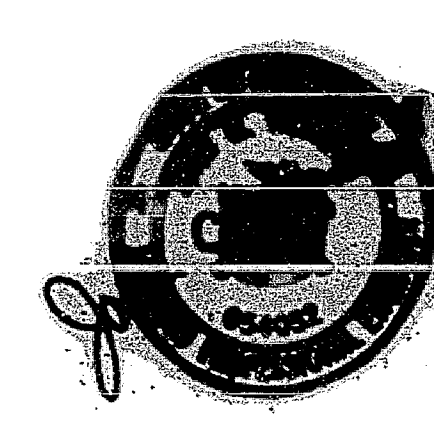
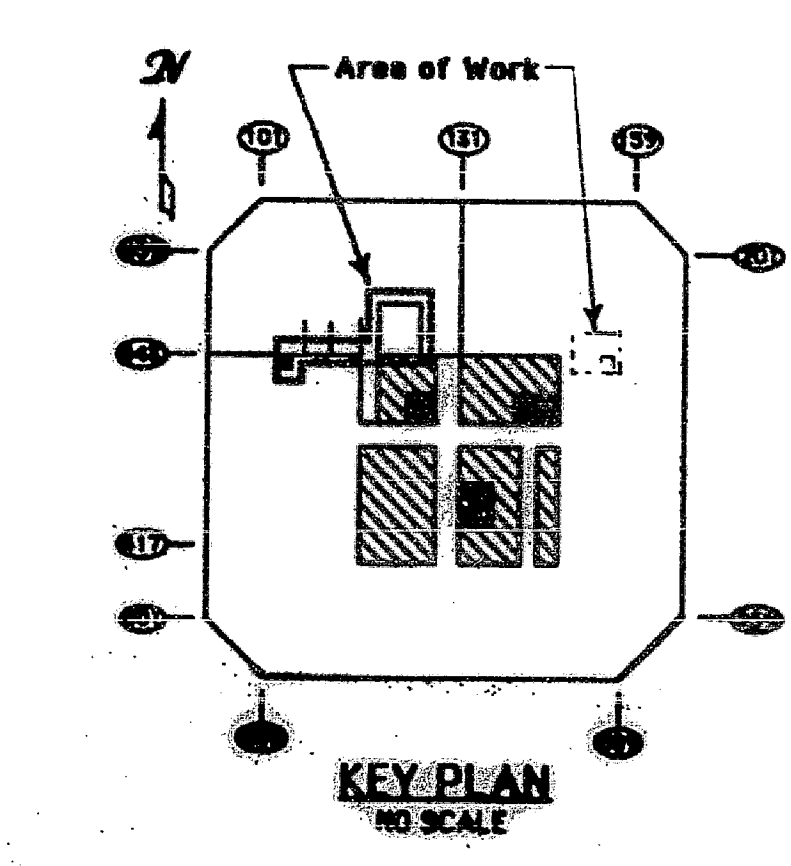
- PLUMBING SPECIFICATIONS**
- Waste and Vent Piping: Schedule 40 galvanized steel.
Waste Fittings: Galvanized cast iron, recessed drainage, threaded.
Vent Fittings: Galvanized standard malleable iron, threaded.
 - Domestic Water Pipes: Type "TP" copper, threadless bronze fittings for brazed joints.
 - Insulation: 1/2" thick, one piece fiberglass pipe insulation with all service jacket. Fittings and valves shall have pre-molded insulation. (Flame spread rating not greater than 25, smoke developed rating 50).
 - Gate Valves: Fairbanks No. 0250B; Check Valve: No. 0640FB or approved equal.
 - Fixture faucets shall be equipped with flow control device to limit the flow to 1/2 GPM at the faucet outlet.
 - Pipe passing through walls shall have a trim opening not greater than necessary for the installation of a sleeve secured therein. Sleeve shall be 1/2" in diameter larger than the outside diameter of the pipe or required insulation passing through and of sufficient length to be flush with the finished wall surface. All floor penetrations shall be core drilled. Annular spaces between piping and sleeves or core drilled floor openings shall be packed with thermalfiber and sealed to retain the fire integrity of the walls and floors with a non-hardening compound similar and equal to Duxseal by J. M. Clippard Corp..
 - All work in occupied tenant areas shall be performed on other than normal working hours as directed by the Engineer.
 - The complete plumbing installation, method of hanging, testing, etc. shall comply with all provisions of the New York City Building Code.
 - Shutdown of existing system: At the time that such closing or opening of valves and draindown becomes necessary, the Contractor shall notify the Engineer 48 hours in advance who will then make the necessary arrangements. The Contractor shall keep the shutdown time to a minimum and drainage shall be to a properly connected receptacle without causing damage to other work and property.
 - Hangers: Clevis type, threaded iron rod, suspended from beam with beam clamps or approved concrete inserts.
Galvanized Waste: every 8 feet - 3/8" rod
No piping shall be hung from other piping, conduit, ductwork, etc.
 - All unused piping, ductwork, hangers, supports, shall be completely removed all the way back to the core rear closet, or back in the nearest branch main and capped, sealed watertight or airtight. All the openings shall be properly patched, coated, and fire stopped to maintain the original integrity of the partition's fire rating.
 - Fixtures: See architect's drawings

- LEGEND**
- WASTE PIPING
 - COLD WATER PIPING
 - HOT WATER PIPING
 - VENT PIPING
 - BALL VALVE
 - EXIST GATE VALVE
 - CAP
 - ELECTRIC WATER COOLER

Pipe Supports and Hangers

- All supports and parts shall conform to the latest requirements of the ANSI Code for pressure piping B31.10 and MSS standard practice SP-58.
- Hangers shall be manufactured by Grinnell Co., Central Iron, Fox and Merson, Blackman Co. or an approved equal.
- Pipe hangers, rods, inserts and clamps shall be those approved for their respective uses by the Underwriters Laboratories, Inc.
- Unless otherwise specifically approved, hanger size and spacing shall be:

Pipe Size	Max Hanger Spacing	Minimum Rod Size
1/2" to 1"	7'8.0 c.	3/8"
1-1/4" to 2"	8'8.0 c.	3/8"
2-1/2" to 3-1/2"	10'8.0 c.	1/2"
4" to 6"	12'8.0 c.	5/8"
8"	15'8.0 c.	3/4"
8" to 12"	12'8.0 c.	7/8"
12" to 14"	8'8.0 c.	3/8"
1-1/2" to 2"	9'8.0 c.	3/8"
2-1/2" to 3-1/2"	10'8.0 c.	5/8"



2	REVISED AS PER P.A. COMMENTS	7-8-92
1	REVISED AS PER P.A. COMMENTS	6-1-92
REV. No.	DESCRIPTION	DATE
Cantor Fitzgerald Securities One World Trade Center Floor 104 New York, NY 10048		
PLUMBING PLAN & SPECIFICATIONS John C. Westrick & Associates CONSULTING ENGINEERS 2110 Maple Avenue South Plainfield, NJ 07080 (908) 581-4178 Fax (908) 581-4179		
SCALE: AS NOTED	DRAWN BY: P.E. JOHN C. WESTRICK	DATE: 5-13-92